

Title (en)

POLYMERS WITH ANTI-MICROBIAL PROPERTIES

Title (de)

POLYMERE MIT ANTIMIKROBIELLEN EIGENSCHAFTEN

Title (fr)

POLYMERES A PROPRIETES ANTIMICROBIENNES

Publication

**EP 0938511 B1 20020227 (DE)**

Application

**EP 97913168 A 19971021**

Priority

- DE 19646965 A 19961114
- EP 9705806 W 19971021

Abstract (en)

[origin: CA2271776A1] The invention relates to polymers with antimicrobial properties, consisting of: a) 99-40 wt % non functional vinylically polymerizable monomers and b) 160 wt % functional vinylically polymerizable monomers of general formula (I) wherein V = vinyl, (meth)acryl, allyl or styryl, A = a possibly available linking unit, which can be alkyl, aryl, arylalkyl or hydroxy alkyl, which can also be interrupted by hetero atoms, e.g. by hetero atoms in urethane, carbonate, ester, amide or ether groups, wherein y = 0 or is 1, Hsp = a hydrophilic spacer of general formula (i) -(O-CH<sub>2</sub>-CH<sub>2</sub>)<sub>r</sub>- and/or (ii) -(O-CH<sub>2</sub>-CH(CH<sub>3</sub>))<sub>s</sub> with r = 0-40, s = 0-40 and r + s = 2-40, also m = 1.2 or 3 and R<sub>1</sub> = CH<sub>3</sub>, ethyl or benzyl, R<sub>2</sub> = an alkyl radical with 8-20 C-atoms, wherein t = 1, 2 or 3 and X = Cl -, Br -, I - or alkyl sulphate.

IPC 1-7

**C08F 246/00**; **C08F 220/34**; **C07C 217/08**; **C07C 219/08**; **A01N 33/12**

IPC 8 full level

**C07C 219/06** (2006.01); **A01N 25/10** (2006.01); **A01N 33/12** (2006.01); **A01N 61/00** (2006.01); **C07C 217/08** (2006.01); **C07C 219/08** (2006.01); **C08F 212/14** (2006.01); **C08F 220/34** (2006.01); **C08F 246/00** (2006.01); **C08F 290/06** (2006.01); **C09D 5/14** (2006.01); **C09D 133/14** (2006.01)

CPC (source: EP US)

**A01N 25/10** (2013.01 - EP US); **A01N 33/12** (2013.01 - EP US); **C07C 217/08** (2013.01 - EP US); **C08F 220/34** (2013.01 - EP US); **C08F 246/00** (2013.01 - EP US)

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

**DE 19654897 A1 19980604**; AU 5051498 A 19980603; CA 2271776 A1 19980522; DE 59706518 D1 20020404; EP 0938511 A1 19990901; EP 0938511 B1 20020227; ES 2173432 T3 20021016; JP 2001504531 A 20010403; US 6194530 B1 20010227; WO 9821253 A1 19980522

DOCDB simple family (application)

**DE 19654897 A 19961114**; AU 5051498 A 19971021; CA 2271776 A 19971021; DE 59706518 T 19971021; EP 9705806 W 19971021; EP 97913168 A 19971021; ES 97913168 T 19971021; JP 52208698 A 19971021; US 30813099 A 19990716